

1st grade | Unit 9

SCIENCE

MACHINES AROUND YOU SCIENCE 109

Introduction |1

1.	Levers 4		
	Some Simple Levers 6	How Levers Work 10	
	Levers That Work Together 8	Self Test 1 12	
2.	Wheels		
	Wheels 16	Pulleys 20	
	Gears 18	Self Test 2 22	
3.	Inclined Planes		
	Ramps 26	Wedges 30	
	Screws 28	Self Test 3 32	
	Test Pullout		



804 N. 2nd Ave. E. Rock Rapids, IA 51246-1759

© 2019 Glynlyon, Inc. All rights reserved.

Author: Phyllis A. MacDonald, M.Ed.

Editor: Mary Ellen Quint, M.A.

Consulting Editor: Harold Wengert, Ed.D.

Revision Editor: Alan Christopherson, M.S.

Media Credits: Page 1: © bluebearry, iStock, Thinkstock; 24, 30: © ttsz, iStock, Thinkstock; 26: © ma_rish, iStock, Thinkstock.

Learn with our friends!





When you see me, I will help your teacher explain the exciting things you are expected to do.



When you do actions with me, you will learn how to write, draw, match words, read, and much more.



You and I will learn about matching words, listening, drawing, and other fun things in your lessons.



Follow me and I will show you new, exciting truths that will help you learn and understand what you study. Let's learn!

MACHINES AROUND YOU

Lift it up. Push it down. Turn the wheel Around and around. Whatever the work That you do, A simple machine Makes it easy for you.

Objectives

Read these objectives. They will tell what you will be able to do when you have finished this workbook.

- 1. I can tell about some levers.
- 2. I can tell about some wheels.
- 3. I can tell about some inclined planes.

Here are some simple machines. Tell what work they help you do.



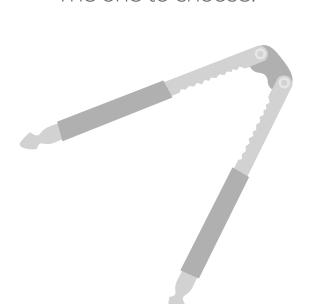


Draw something you can do with a simple machine.

1. LEVERS

To open a can Or fill a pail, To crack a nut Or pull a nail,

Do you know What you should use? A **lever** is The one to choose.

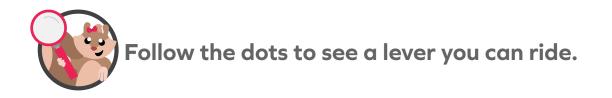


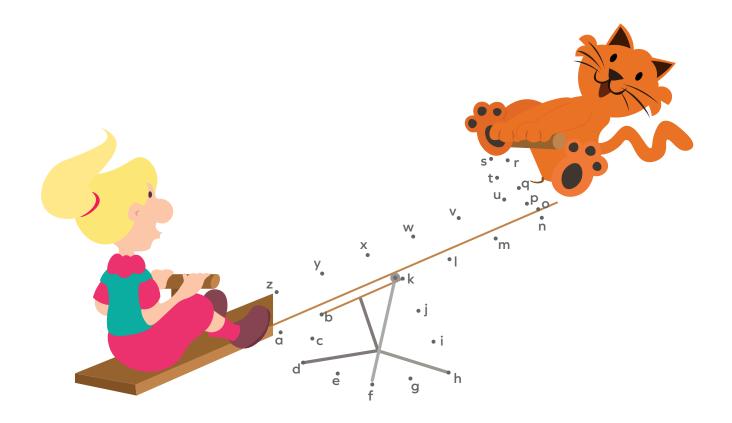


A lever is a simple machine.



Can you name some levers you might find in the kitchen or in a toolbox?





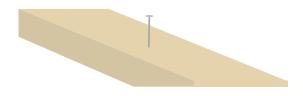
Some Simple Levers



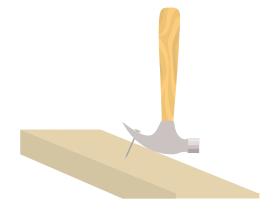
The rock is too big.



A lever can help.



The nail is stuck.



A lever can help.

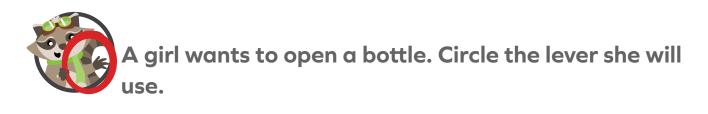


A lever can help.



The cover is too tight.







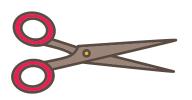


Father needs to lift his car. Circle the lever he will use.



Levers That Work Together

Some tools are made of levers. The levers work together.



Scissors



Pliers



Nutcracker

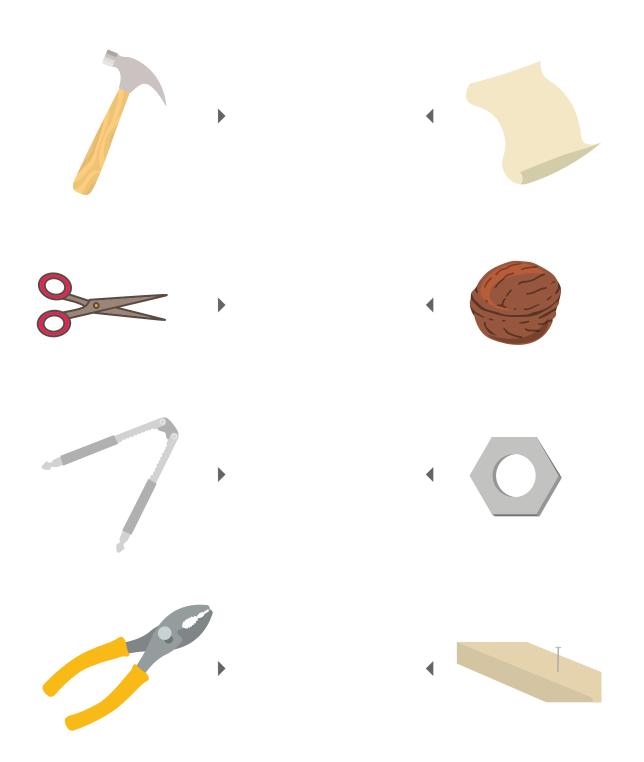


Nail Clippers



Can you name some jobs these tools can do?



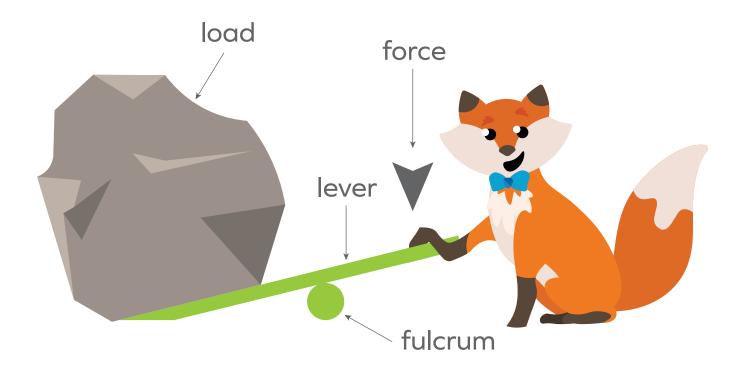


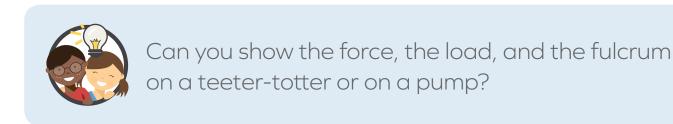
How Levers Work

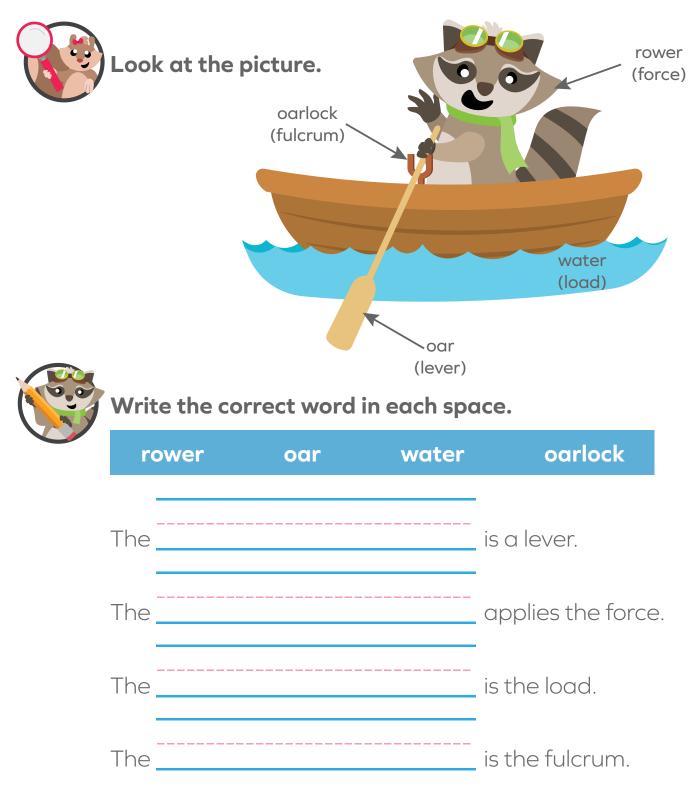
A lever needs a force. Filmore applies the force.

A lever moves a load. The rock is the load.

A lever needs a fulcrum. The roller is the fulcrum.









Before you take the Self Test, study what you have read

and done. The Self Test will check what you remember.

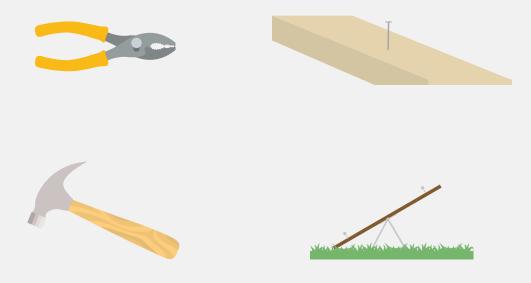


Each answer = 1 point

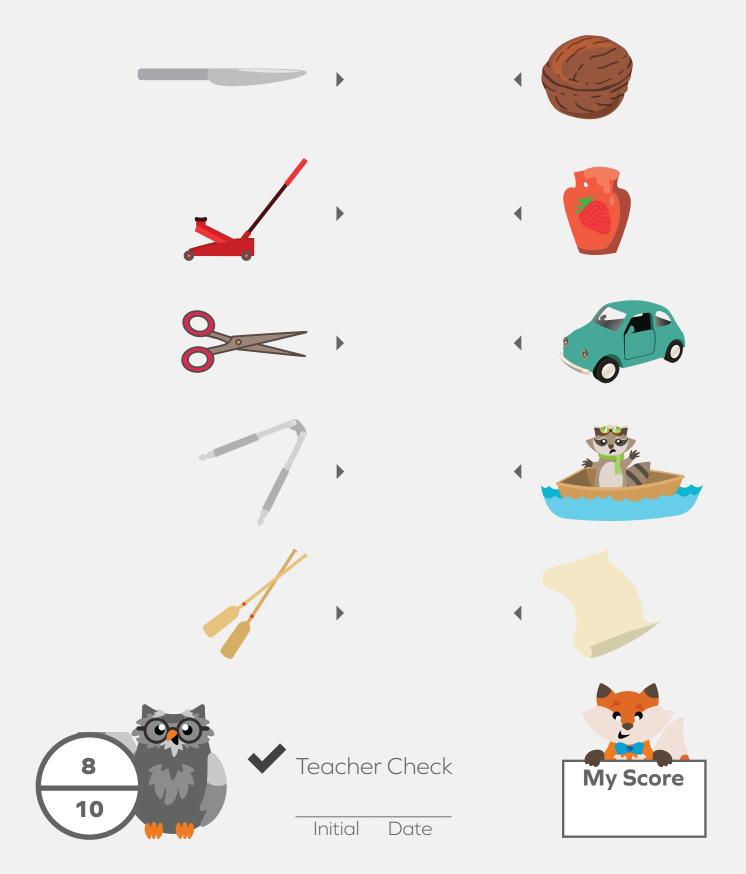
Write the correct word in each space.

bottle	lever scissors	
	Δ	is a simple machine.
	A lever can open a	 ·
	A pair of working together.	 is two levers

Circle the levers that will work to pull out the nail.



Match the levers with the jobs they do.





804 N. 2nd Ave. E. Rock Rapids, IA 51246-1759

877-878-8045 www.calverteducation.com CS0109 - Jun '19 Printing

